

(Model.)

E. E. TOPE.
Lifting Jack.

No. 235,179.

Patented Dec. 7, 1880.

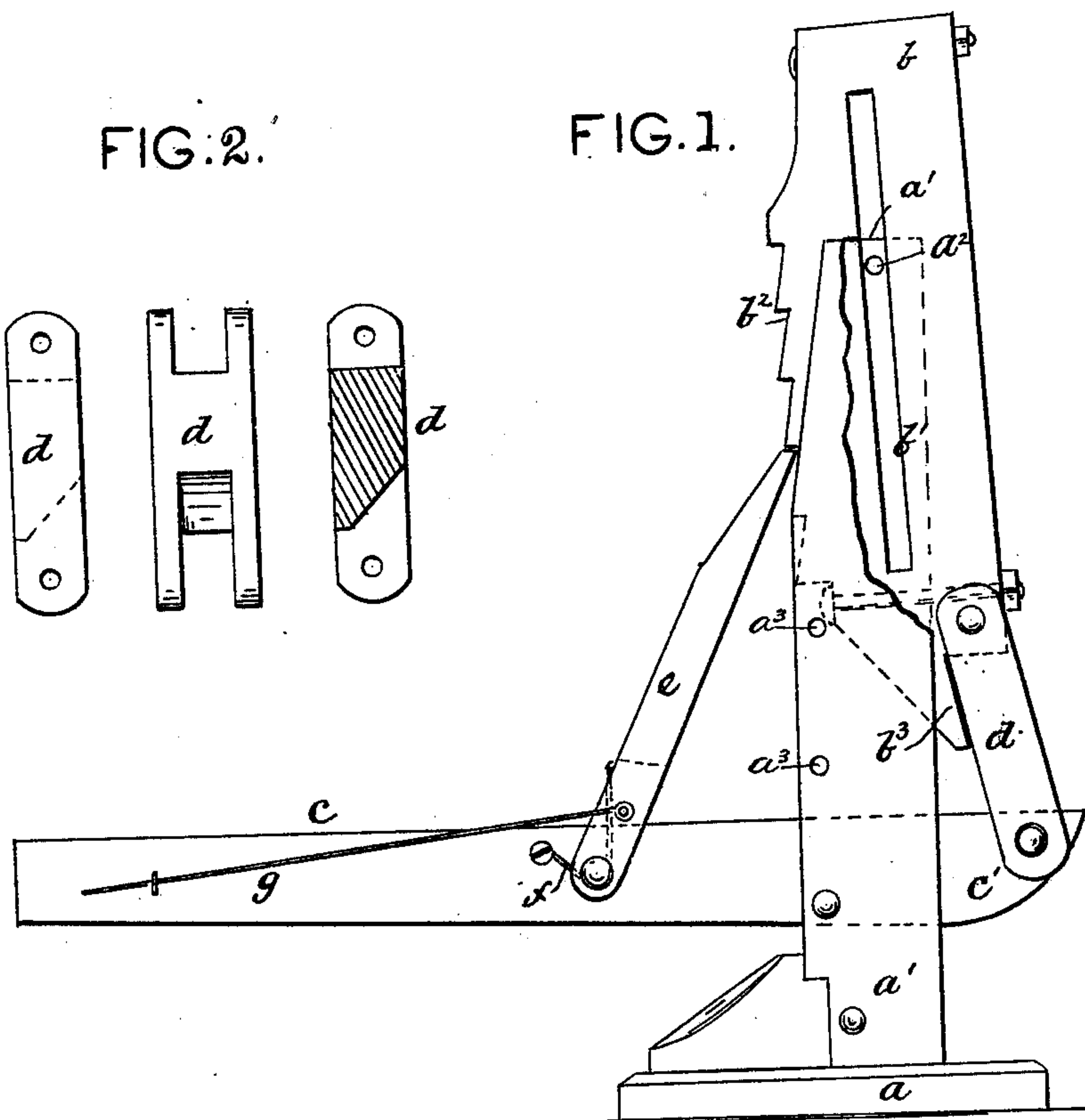
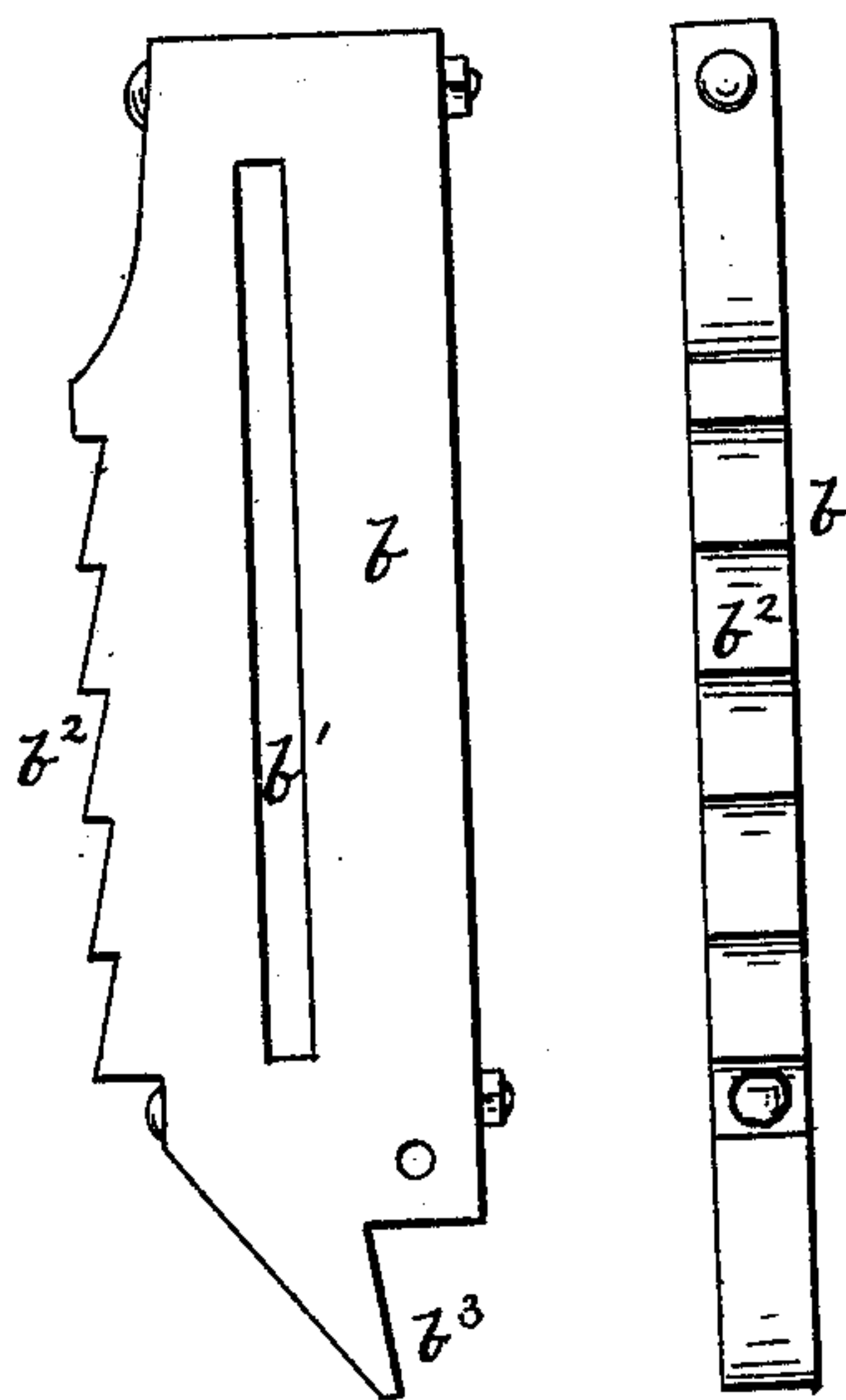


FIG. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

EZRA E. TOPE, OF TIPPECANOE, OHIO.

LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 235,179, dated December 7, 1880.

Application filed October 12, 1880. (Model.)

To all whom it may concern:

Be it known that I, EZRA E. TOPE, a citizen of the United States, residing at Tippecanoe, in the county of Harrison and State of Ohio, have invented certain new and useful Improvements in Lifting-Jacks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to wagon-jacks; and it
15 consists in the construction and arrangement of the several parts hereinafter described and claimed.

In the drawings, Figure 1 is a side elevation of a jack constructed according to my invention. Fig. 2 shows the connecting-link between the lever and the lifting-bar, and Fig. 3 shows the lifting-bar.

a is the base, into which are set the lower ends of two vertical side bars, a' a' , held together at their tops by the single cross-bolt a^2 . These form a substantial frame for holding the other mechanism.

b is the lifting-bar, which is placed between the side bars, a' a' , and slides vertically. It is
30 provided with a longitudinal slot, b' , which extends nearly its whole length, and the single bolt, a^2 , passes through it, as shown. On one edge it is provided with ratchet-teeth b^2 , and projecting downward from the center of
35 its lower end is the arm b^3 .

c is the hand-lever for lifting the bar b . It is pivoted near the lower end and between the side bars, a' a' . It may, when desired, be pivoted at higher points on a bolt put through one of the series of holes a^3 , formed through the side bars, a' a' . The end c' of this hand-
40 lever c projects through the side bars, a' a' , and is connected to the lower end of rear side of the lifting-bar b by a short pitman or arm, d . The pitman is so connected to the sliding
45 bar b that the short arm b^3 will come in contact with its front edge and prevent the lower end of the sliding bar from turning outward from its place between the vertical posts a' a' .

To the hand-lever, and in front of the sliding bar, I place the pawl e , which is arranged to engage in the ratchet-teeth b^2 . The pawl is held in position against the teeth b^2 by a spring, f , fixed on the lever c , as shown.

g is a rod having one end attached to the pawl e , while the other end is carried back along the hand-lever c to a point where it can be easily got hold of by the hand when it is desired to release the pawl e from its hold in the teeth b^2 .

The operation of this jack is very simple. By pressing down on the handle c the bar b is made to rise and lift any weight that may be resting on its top. The pawl engages in the teeth b^2 and holds the bar b at any height to which it may have been lifted. To let the bar or post b down it is only necessary to press the handle down slightly and draw the pawl back by the rod g , after which the weight can be lowered.

In this device I have but a single bolt, a^2 , to retain the bar b in place between the side bars, a' . The lifting-bar is guided at its lower end and kept in place by the projection b^3 , which bears against the connecting-arm d .

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination of the supporting-frame having guide-pin a^2 near its upper end, the lever c , pivoted in the frame so that its end c' projects outward, as shown, the pawl e , the connecting-link d , the pawl and link being pivoted to the lever c and arranged on opposite sides of the supporting-frame, and the slotted lifting-bar b , having ratchet-teeth b^2 , said bar being placed in the frame and on the pin a^2 , and furnished with an arm, b^3 , projecting downward from its lower end, and having its lower end pivoted to the upper end of the link d , with the arm b^3 resting against the side of the said link, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

EZRA E. TOPE.

Witnesses:

W. H. LATTO,
M. T. BILLINGSLY.